

41 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1773

In re the Application of

**JEFFREY TALLON**

Application No. 10/010,746

Filed: December 7, 2001

Confirmation No. 2959

For: NOVEL ORGANIC/INORGANIC OXIDE  
MULTILAYER MATERIALS



: Docket No. 0074-451795

: Art Unit 1773

: Examiner H.T. LE

RECEIVED  
DEC 04 2003  
TC 1700

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I hereby certify that this Correspondence is being deposited on **November 26, 2003** with the United States Postal Service as first-class mail in an envelope properly addressed to COMMISSIONER FOR PATENTS, Alexandria, Virginia 22313-1450.

November 26, 2003  
Date of Certificate

  
Vincent T. Pace

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

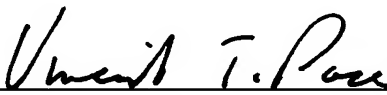
We are enclosing the following:

- 1) Reply to Non-Final Action;
- 2) Fee Transmittal for FY 2004; and
- 2) Postcard receipt.

**AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT**

In the event a fee is required and is not enclosed, or the check is improper, or the fee calculation is in error, the Commissioner is authorized to charge any underpayment or credit any overpayment to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.

DANN, DORFMAN, HERRELL AND SKILLMAN  
A Professional Corporation

By   
Vincent T. Pace  
PTO Registration No. 31,049



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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

**Complete if Known**

Application Number	10/010,746
Filing Date	12/07/2001
First Named Inventor	JEFFREY TALLON
Examiner Name	H.T. LE
Art Unit	1773
Attorney Docket No.	0074-451795

RECEIVED  
DEC 04 2003  
TC 1700

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☒ None

☒ Deposit Account:

Deposit Account Number: 04-1406

Deposit Account Name: DannDorfmanHerrell&Skillm

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims: 78

Independent Claims: 2

Multiple Dependent: 0

98 Extra Claims

Fee from below: 0

Fee Paid: 0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$)

\*\*or number previously paid, if greater. For Reissues, see above

**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify)			
*Reduced by Basic Filing Fee Paid			
SUBTOTAL (3)			(\$)

**SUBMITTED BY**

Name (Print/Type)	Vincent T. Pace	Registration No. (Attorney/Agent)	31,049	Telephone	215-563-4100
Signature	<i>Vincent T. Pace</i>	Date	11/26/2003		

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application No. 10/010,746  
Docket No. 0074-451794

Group Art Unit 2888  
Confirmation No. 2959

**REPLY TO NON-FINAL ACTION**

In response to the Official Action mailed on August 27, 2003, please amend the above-referenced patent application as follows.

**In the Claims**

- 1.(Currently Amended)      ~~A~~ The layered organic-inorganic/oxide material ~~comprising or including: as claimed in Claim 53 wherein the~~ one or more layers of ~~the~~ metal oxide ~~consisting of~~ comprise one or more atomic planes of corner-shared  $\text{MO}_6$  octahedra, where M is ~~the~~ a metal; ~~and one or more layers of organic molecules,~~ ~~wherein the metal-oxide layers alternate with one or more organic layers alternate to form a periodic planar structure.~~
  
- 2.(Currently Amended)      ~~A~~ The material as claimed in claim 1 wherein the metal M is W, V or Mo, or a combination of these.
  
- 3.(Currently Amended)      ~~A~~ The material as claimed in claim 2 wherein ~~the metal M is W, V or Mo, or a combination of these and wherein other~~ a high valency metals such as metal selected from the group consisting of Ti, Nb, Ta, Ru and Re ~~are~~ is used in partial combination with ~~Mo, W or V~~ M.
  
- 4.(Currently Amended)      ~~A~~ The material as claimed in claim 2 having a general formula  $\text{X.M}_m\text{O}_{3m+1}$  wherein M is the metal, and X is an organic cation and  $m=1, 2, \text{ or } 3$ .
  
- 5.(Currently Amended)      ~~A~~ The material as claimed in claim 4 wherein the organic cation is bidentate.